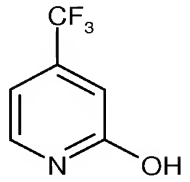
Claim Amendment

5. (Withdrawn).

6. (Withdrawn).

7. (Withdrawn).

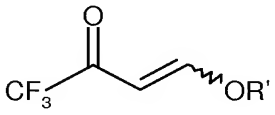
8. (New) Process according to Claim 1 for the preparation of 4-trifluoromethyl-2-pyridinol



(Ia)

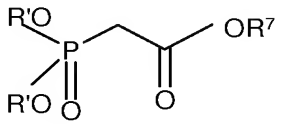
which comprises:

i) contacting a 4-alkoxy-1,1,1-trifluorobut-3-en-2-one of the formula



in which R' represents C_1-C_6 alkyl,

with a trialkyl phosphonoacetate of the formula:



in which R' is as previously defined,

and

R^7 represents C_1-C_6 alkyl

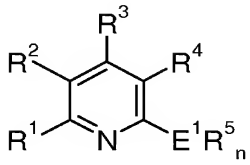
in the presence of a base and an alcoholic solvent to provide a mixture of intermediates,

and

ii) cyclizing the mixture of intermediates in the presence of ammonia to provide 4-trifluoromethyl-2-pyridinol.

Listing of Claims

1. (Original) Process for the preparation of substituted pyridine derivatives of formula (I)



(I)

wherein

R^1, R^2 independently the same or different are H; C_{1-20}-alkyl (branched or straight chain or cyclic); C_{6-20}-aryl - which each of those may be substituted with one or more of the following groups: F, Cl, Br, I, C_{1-20}-alkoxy, C_{6-20}-aryloxy, amino; F; Cl; Br; I;

R^3 = CN, NO_2, C_{1-20}-alkyl (branched or straight chain or cyclic); C_{6-20}-aryl - which each of those may be substituted with one or more of the following groups: F, Cl, Br, I, C_{1-20}-alkoxy, C_{6-20}-aryloxy, amino; F; Cl; Br; I;

$R^4 = E_nR^6{}_m$ in which
if n = m = 1 than E = S and R^6 = C_{1-20}-alkyl (branched or straight chain or cyclic); C_{6-20}-aryl - which each of those may be substituted with one or more of the following groups: F, Cl, Br, I, C_{1-20}-alkoxy, C_{6-20}-aryloxy, amino; F, Cl, Br, I;
if n = 0 and m = 1 than R^6 = H, C_{1-20}-alkyl (branched or straight chain or cyclic); C_{6-20}-aryl - which each of those may be substituted with one or more of the following groups: F, Cl, Br, I, C_{1-20}-alkoxy, C_{6-20}-aryloxy, amino; F, Cl, Br, I;

E^1 = O, N

R^5 = H

n= 1 for E^1 = O und 2 for E^1 = N

comprising reaction of a α-β-unsaturated carbonyl compound of formula (II)

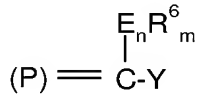
$$R^3\text{-}C(O)\text{-}C(R^1)=C(R^2)\text{-}G \qquad (II)$$

wherein

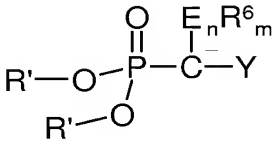
R^1, R^2 and R^3 have the above defined meaning;

G = $-NH_2$ or a leaving group

with a Wittig reagent or Horner-Wadsworth-Emmons reagent of formula (III)



(IIIa1)



(IIIa2)

wherein

(P)= $P(Ar)_3$, with Ar = substituted or preferably unsubstituted $C_{6\text{-}20}$ aryl, R' = is equal or different independently means $C_{1\text{-}20}$ alkyl, branched or straight or cyclic, or $C_{6\text{-}20}$ aryl;

$E_nR^6{}_m$ = in which

if n = m = 1 than E = S and R^6 = $C_{1\text{-}20}$-alkyl (branched or straight chain or cyclic); $C_{6\text{-}20}$-aryl - which each of those may be substituted with one or more of the following groups: F, Cl, Br, I, $C_{1\text{-}20}$-alkoxy, $C_{6\text{-}20}$-aryloxy, amino; F; Cl; Br; I;

if n = 0 and m = 1 than R^6 = H, $C_{1\text{-}20}$-alkyl (branched or straight chain or cyclic); $C_{6\text{-}20}$-aryl - which each of those may be substituted with one or more of the following groups: F, Cl, Br, I, $C_{1\text{-}20}$-alkoxy, $C_{6\text{-}20}$-aryloxy, amino; F; Cl; Br; I;

Y = - CN; -C(O)NH_2; -C(O)OR^7 with R^7 = as defined for R^1 above, except H

in the presence of a base and if

i) Y = -CN or C(O)NH_2, G = a leaving group and the base is an alcoholate, subsequent acidic catalyzed, with zeolithes catalyzed or basic catalyzed cyclization;

ii) Y = -C(O)-OR^7, G = a leaving group and the base is an alcoholate, subsequent basic cyclization in the presence of ammonia.

2. (Original) Process according to claim 1, wherein R^1 = R^2 = H and R^3 = electron withdrawing group.

3. (Original) Process according to claims 1 to 2, wherein R^1 = R^2 = H and R^3 is a partially or fully fluorinated C_{1-6}-alkylgroup.

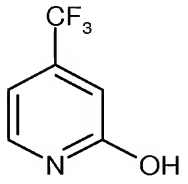
4. (Original) Process according to claims 1 to 3, wherein R^3 = $-CF_3$.

5. (Withdrawn)

6. (Withdrawn)

7. (Withdrawn)

8. (New) Process according to Claim 1 for the preparation of 4-trifluoromethyl-2-pyridinol



(Ia)

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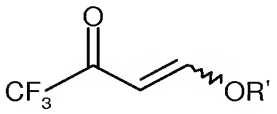

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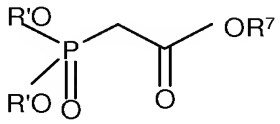
with a trialkyl phosphonoacetate of the formula:



in which R' is as previously defined,

and

R^7 represents C_1-C_6 alkyl

in the presence of a base and an alcoholic solvent to provide a mixture of intermediates,

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